

PROPOSED TECHNICAL CODE

All technical and specialized terminology employed herein is used in the manner prescribed by the Federal Communications Commission in its Rules and Regulations and in its standards of Good Engineering Practice; no other definitions shall be construed to apply, and no other meanings shall be inferred.

All Members who operate or participate in the operation of a system disseminating programs through the use of one or more carrier current devices shall adhere to the following technical regulations and standards of good engineering practice:

- a) No carrier frequency of less than 540 nor more than 700 kc/sec. shall be employed in such a system, unless higher frequencies are approved by the Technical Manager.
- b) No carrier frequency shall be employed within 10 kc/sec. of the carrier frequency employed by any standard station whose 100 mv/m contour encloses any part of the service area of the system or within 20 kc/sec. of any standard station whose 500 mv/m contour encloses any part of the service area of the system.
- c) The service area of each system shall be limited to college-owned buildings of the college it serves, and to other private property associated with college life, such as fraternities.
- d) Radiation of the fundamental wave and all harmonic and spurious radiations shall not exceed 15 mv/m at a distance of wavelength (in feet) divided by 2 II from all radio-frequency lines and buildings which comprise the system.
- e) Each system shall employ the following studio facilities:
 1. Two or more independently attenuated microphone channels and microphones;
 2. Two separately attenuated phonograph channels, or a single attenuated channel employing instantaneous switching between two phonograph pickups;
 3. Two 78 r.p.m. turntables and lateral pickups and one 33 1/3 r.p.m. turntable and lateral pickup. Latter may be combined with one 78 r.p.m. unit;
 4. Loudspeaker monitoring in all separate control rooms and earphone monitoring in all control locations;
 5. Volume indicator on program output to transmitter;
 6. One separately attenuated input for one or more remote lines, may be combined by means of

All technical and specialized terminology employed herein is used in the manner prescribed by the Federal Communications Commission in its Rules and Regulations and in the standards of good engineering practice; no other definitions shall be considered to apply, and no other meanings shall be inferred.

All members who operate or participate in the operation of a system shall be responsible for the use of one or more carrier frequencies. The use of the following technical terms and standards of good engineering practice:

a) No carrier frequency of less than 540 nor more than 700 Mc/sec. shall be employed in such a system, unless higher frequencies are approved by the Technical Manager.

b) No carrier frequency shall be employed within 10 Mc/sec. of the carrier frequency employed by any standard station whose 100 mW/m carrier encloses any part of the service area of the system or within 20 Mc/sec. of any standard station whose 500 mW/m carrier encloses any part of the service area of the system.

c) The service area of each system shall be limited to collision-free conditions of the collision-free and to other systems properly associated with collision-free, such as terrestrial.

d) Radiation of the fundamental wave and all harmonics and spurious emissions shall not exceed 15 mW/m at a distance of wavelength (in feet) divided by 2 ft from all radio-frequency lines and buildings which enclose the system.

e) Each system shall employ the following studio facilities:

1. Two or more independently attenuated microphone channels and microphones;
2. Two separately attenuated phone transmission channels or a single attenuated channel employing independent attenuation for each of the two channels;
3. Two VU r.p.m. meters and lateral clips and one 50 r.p.m. meter and lateral clip. Letter may be combined with one "B" r.p.m. meter;
4. Independent monitoring in all control rooms and response monitoring in all control locations;
5. Volume indicator on the system output to transmitters;
6. One separately attenuated input for one or more remote lines, may be combined by means of

instantaneous switches with one phonograph input channel, if two separately attenuated phonograph channels are provided.

- f) Each system shall meet the following standards of performance:
1. Transmitter modulation capability: 95% A.M.
 2. Distortion: less than 7.5% r.m.s. at 95% modulation measured at 100 or 400 c/sec.
 3. Frequency response: flat within plus or minus 2 db of the 400 or 1000 c/sec. response from 100 to 5000 c/sec.
 4. Frequency stability: plus or minus 50 c/sec.
 5. Noise and hum introduced after microphone: 30 db. or more below level of 100% modulation from 100 to 15,000 c/sec.
 6. Primary coverage: one-half or more of the students resident upon the campus or in buildings adjacent to and directly associated with the campus.
- g) Each member shall keep an operating log and record in it the following information:
1. The exact time the carrier and modulator are on and off;
 2. The plate current of the final RF stage measured at weekly intervals;
 3. The carrier frequency as measured at daily intervals if self-excited, or at weekly intervals if crystal controlled, by a method approved by the Technical Manager.

instantaneous switches with one phonograph
input channel, if two separately actuated
phonograph channels are provided.

7) Each system shall meet the following standards of

- performance:
1. Transmitter modulation capability: 95% A.M.
 2. Distortion: less than 7.5% r.m.s. at 95% modulation measured at 100 or 400 c/sec.
 3. Frequency response: Flat within plus or minus 2 db of the 100 or 1000 c/sec. response from 100 to 5000 c/sec.
 4. Frequency stability: plus or minus 50 c/sec.
 5. Noise and hum introduced after microphone: 30 db. or more below level of 100% modulation from 100 to 15,000 c/sec.
 6. Primary coverage: one-half or more of the students resident upon the campus or in buildings adjacent to and directly associated with the campus.

8) Each member shall keep an operating log and record in it the following information:

1. The exact time the carrier and modulation are on and off;
2. The date current of the final R.F. stage measured at weekly intervals;
3. The carrier frequency as measured at daily intervals self-checked, or at weekly intervals if checked, controlled, by a method approved by the Technical Manager.